IN THE CLAIMS

Please amend the claims as follows:

1-3. (Canceled)

4. (Previously Presented) A multi-beam imaging apparatus forming an image by performing scanning by deflecting a plurality of light beams, the multi-beam imaging apparatus comprising:

an image input part configured to input image data obtained from scanning each scan line of an original image; and

a plurality of data conversion parts configured to convert, for each of the plurality of light beams, a resolution of the image data input by said image input part,

wherein said plurality of data conversion parts are configured to perform different conversion operations; and

wherein each data conversion parts includes a register to which rewritable pulse-width data and a rewritable phase code are input and a selector that selects a given one of written contents of the register based on the input multi-level image data.

5. (Original) The multi-beam imaging apparatus as claimed in claim 4, wherein each of the data conversion parts includes a data conversion table using a storage part.

6. (Original) The multi-beam imaging apparatus as claimed in claim 5, further comprising a control part that sets any independent value in each of said conversion tables for the corresponding light beam.

7. (Original) The multi-beam imaging apparatus as claimed in claim 4, wherein said data conversion parts comprise a part that converts the input multi-level image data into modulation code data so that the light beams are output differently from each other based on the modulation code data.

8. (Canceled)

9. (Previously Presented) The multi-beam imaging apparatus as claimed in claim 4, wherein the rewritable pulse-width data and phase code are matched in advance with a characteristic of the multi-beam imaging apparatus.

10-16. (Canceled)

17. (Previously Presented) A multi-beam imaging apparatus forming an image by performing scanning by deflecting a plurality of light beams, the multi-beam imaging apparatus comprising:

means for inputting image data obtained from scanning each scan line of an original image; and

a plurality of data conversion means for converting, for each of the plurality of light beams, a resolution of the image data input by the means for inputting,

wherein said plurality of data conversion means perform different conversion operations; and

wherein each of said data conversion means includes a register to which rewritable pulse-width data and a rewritable phase code are input and a selector that selects a given one of written contents of the register based on the input multi-level image data.

18. (Original) The multi-beam imaging apparatus as claimed in claim 17, wherein each of the data conversion means includes a data conversion table using storage means.

19. (Original) The multi-beam imaging apparatus as claimed in claim 18, further comprising control means that sets any independent value in each of said conversion tables for the corresponding light beam.

20. (Original) The multi-beam imaging apparatus as claimed in claim 17, wherein said data conversion means comprise means for converting the input multi-level image data into modulation code data so that the light beams are output differently from each other based on the modulation code data.

21. (Canceled)

22. (Previously Presented) The multi-beam imaging apparatus as claimed in claim 17, wherein the rewritable pulse-width data and phase code are matched in advance with a characteristic of the multi-beam imaging apparatus.

23. (Canceled)

24. (Previously Presented) The apparatus of claim 4, wherein said data conversion part is configured to convert the resolution of the image data input by said image input part to be a higher resolution.

25-26. (Canceled)